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**(54) HARMFUL-GAS
REMOVAL SYSTEM IN
WASTE-PLASTIC
THERMAL
DECOMPOSITION
APPARATUS**

(57) Abstract:

PURPOSE: To obtain a harmful-gas removal system which is used in a waste- plastic thermal decomposition apparatus and removes sulfides or cyanides from a recycled oil or treated waste water to give a harmful-gas-free oil.

CONSTITUTION: The apparatus for recovering an oil by the thermal decomposition of a waste plastics is equipped with a mixer 1 for mixing a recovered oil with an acid, an aeration vessel 2 for bubbling the mixture from the mixer 1 with an aeration gas, a burner 3 for burning a harmful gas released from the aeration vessel 2, a neutralizing vessel 4 for neutralizing a harmful-gas-free mixture sent from the aeration vessel 2, and an oil-water separator for separating the mixture sent from the neutralizing vessel 4 into an oil and water.

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